MAJOR CLASSIFICATION INDEX OF ARTICLES

AGRICULTURAL GEOCHEMISTRY
Natural isotope tracers in the vine ecosystem 1-11

ANALYSIS
CO_2 absorption method for ^{14}C dating 625-633

ARCHAEOLOGICAL GEOCHEMISTRY
Albumin preservation, Taima-taima mastadon skeleton 255-259
Amino acid racemization in bone: the boiling of Lothar I 325-327
Collagen molecular preservation in 11,000 a-old Megaceros antler 301-302
Detection of bone preservation 281-292
Editorial comments on First First International Workshop on Fossil Bone 211-213
ESR dating of tooth enamel 329-330
Examples of chemical changes during fossilization 273-280
Fossil bone apatite 233-245
Further studies of U-series dating of fossil bone 331-337
Impact of microbial activity on trace element concentrations in excavated bones 293-298
Ionic exchange between soil solution and bone 303-316
Microscopical analysis of fossil bone 215-229
Molecular structure of bone and its relation to diagenesis 231-232
Note on microbial influence on C and N isotopes in bone 299
Note on the isolation of single amino acids from fossil bone 271
O isotope variation in bone phosphate 317-323
Radiocarbon dating of bone 249-253
Trace elements in fossil bone 247-248
U and Th in fossil bones: activity ratios and dating 339-342
Weathering sequence of wildebeest bones 261-270

ENVIRONMENTAL GEOCHEMISTRY
Aqueous geochemistry of Berkeley Pit, Butte, Montana, USA 23-36
Contamination in a desert stream, Arizona, USA 445-454
I dispersion in a peat bog, Manitoba, Canada 423-432
Salt sources, Yilgarn Block, Australia 79-92
Se in groundwater after mining, Wyoming, USA 565-575
Selenium, Kesterson Reservoir, California, USA 543-563
Sulfur in waters from Nova Scotia basins, Canada 93-98
Trace elements at river-sea interface, Adige River, Adriatic Sea 409-421
Transit of SO_4 in a Canadian Shield lake watershed 195-201

Radioactive Waste Disposal
Fission product retention, Oklo 49-62
Leaching of natural and nuclear waste glasses in sea water 593-604
Radionuclide sorption characterization studies, Hanford, WA, USA 63-77
Radionuclide sorption on minerals, East Bull Lake pluton, Ontario, Canada 163-176
Review of modelling of radionuclide transport 527-537
U and Ra in groundwater, Manitoba, Canada 577-592
U-series nuclides, Golden Fault, Colorado: dating fault displacement 177-182

EXPLORATION: ENERGY RESOURCES

Petroleum and Natural Gas
Biological markers from terrestrial source rocks and crude oils, PRC 13-22
Fixed-ammonium in clays associated with crude oils 605-616
Stable isotopes, New Zealand crude oils: 1. Carbon 109-120
Stable isotopes, New Zealand crude oils: 2. Sulfur 121-130

Uranium
U anomaly evaluation in groundwater, Nisa, Portugal 375-394

Geothermal Resources
Application of gas geobarometry, Italian geothermal areas 465-472

EXPLORATION: MINERAL RESOURCES
Fluid inclusion composition, Baltic Sea quartz 473-481
Organic material and Kupferschiefer mineralization, Poland 151-161

Gold
Biogeochemical haloes of Au in various species and parts of plants 369-374
Organic matter and Au-ore association, France 143-149
Reduced S in fluid inclusions - Au deposits 483-491

Non-metallic
Geochemistry and genesis of Austrian talc deposits 511-525
Smectite and clinoptilolite, Turkey 635-644

Other Metallic Deposits
Current karst bauxite formation, Haiti 37-47
Review of origins of metal rich Pennsylvanian black shales 347-367

FORMATION WATERS
Origin and evolution of formation waters, Norwegian shelf 131-142
Pore fluid generation, L. Permian, Palo Duro Basin, Texas 455-464

HYDROGEOLOGY
Application of dialysis to trace elements in groundwater 617-624
Geochemical evolution of groundwater in a closed basin, Nevada 493-510

MEDICAL GEOCHEMISTRY
Human impact on N geochemistry, Byelorussia, USSR 437-444
Iodine in waters: possible links with endemic goitre 203-208

OTHER TOPICS
REE in Mn-micronodules and sediments, Pacific 183-193
S and Sr isotopes, L. Permian anhydrite, Texas 395-407
Sterilization of sediments by ionizing radiation 99-103

actinides
    ^{241}Am 163
Adige River mouth, Italy 409
Adriatic Sea (northern), Italy 409
adsorption 63
Aeolian Islands, Italy 465
aerosols, marine
    source of salts in brines 79
    source of sulfate 93
Africa
    North 203
    Oklo, Gabon 49
Ag,
    in natural fission reactor 49
agriculture 437
    vine 1
Al
    in bauxite 37
    in fossil bone 303
    in groundwater 375
    in pit water 23
    in tailings seep 445
albumin, in fossil bone 255
alkali elements, ^{137}Cs 163
alkaline earth elements, ^{90}Sr 163
alkylthiolane 13
alkylthiophene 13
alteration
    chemical properties 99
    replacement of pyroxenes 163
alunite, control of brine composition 79
^{241}Am, sorptive capacity 163
amino acid racemization, in bone 325
amino acids
    in fossil bone 271, 281
ammonium
    in clay minerals 605
    N 437
amorphous ferric hydroxide 23
analysis, ^{14}C dating 625
Analytical Methods
    ESR dating 329
    histology 215
    neutron activation analysis 347
    NMR 1
anhydrite, S and Sr isotopes 395
anionic-forming fission products
    ^{75}Se 163
    ^{95m}Tc 163
anomaly, U deposits 375
anoxic, methodology 63
apatite
    in bone 329
    in fossil bone 233, 281
aqueous geochemistry 23
aquifers, shale 347
Ar, in clinoptilolite 635
archaeology 339
    archaeological sites 329
    bone preservation 281
    fossil bone 233
    human bone 215, 249
Arizona, USA, Eureka Mining District 445
aromatic hydrocarbons, in Kupferschiefer 151
arsenopyrite, Au content 143
As
    in pit water 23
    in tailings seep 445
aspartic acid, in bone 325
atmosphere
    bone weathering 233
Au
    in black shales 483
    exploration, in black shales 483
    ore genesis 143
    in plants 369
Australia
    South Australia 303
    Western Australia 79
Austria
    Lassing 511
    Rabenwald 511

Ba
    in bone decay 293
    in fossil bone 303
    in groundwater 375
Baltic Sea 99
Baltic Shield, Sweden 473
basalt
    flow top cores 63
    radwaste disposal 63
base metals 473
bauxite, formation 37
Berezinian Biosphere Reserve 437
Berkeley Pit, Montana, USA 23
Bigadic, western Turkey 635
biogeochemical exploration
    Au deposits 369
biogeochemistry, bone 233
biological markers 13
biphenyl, in Kupferschiefer 151
bitumen, S isotopes 121
Black Hills, USA 347
black shale 483
Blanchetown, South Australia 303
bog, I dispersion test 423
bone
    archaeological 303
    -- see fossil bone
    mineral 293
    preservation 281

BOOK REVIEWS
    Biogeochemical exploration
    for mineral deposits 433
    Geochemistry and Mineral Formation in
    the Earth Surface 539
    Great Glen, Regional Geochemical
    Atlas 105
bottom sediments 409
Br, in formation water 131
brine 131
    basinal 347
    internal drainage basin 79
brushite, in fossil bone 233, 273
Byelorussia, USSR 437

C 281
    in Au ore 143
    in black shales 347
    in bone 325

C
in fossil bone 233, 249
in Kupferschiefer 151
isotopes in bone 299
isotopes in carbonates 455
isotopes in crude oil 109
organic 565
^{14}C
in fossil bone 271
dating of groundwater 625
Ca
in bauxite 37
in bone decay 293
in fluid inclusions 473
in fossil bone 233, 303
in groundwater 375, 493
in pit water 23
in talc deposits 511
calcic amphiboles 163
calcination, for Au ore 143
calcite 493
in fossil bone 273
calcrete, control of brine composition 79
California, USA, Kesterson Reservoir 543
Canada
Lac du Bonnet, Manitoba 423
Manitoba (eastern) 423
Manitoba 577
Nova Scotia 93
Ontario, East Bull Lake, Massey 163
Quebec 195
Canadian Shield 577
carbonate 109
carbonate reservoir rocks 131
carbonate-evaporite rocks 465
carcinogenic diseases 437
carotane 13
Cd
anthropogenic influence 409
in black shales 347
in natural fission reactor 49
in pit water 23
Ce
in marine sediments 183
in Mn micronodules 183
^{144}Ce
sorptive capacity 163
Ce/La ratio
in marine sediments 183
in Mn micronodules 183
Central USA 347
CH_4
in geothermal gases 465
chemical evolution, of groundwater 493
chemical weathering 79
of microtektites 593
chlorite, in talc deposits 511
Cl
in groundwater 79, 375, 493
clastic reservoir rocks 131
clay minerals 493
fixed ammonium 605
clayey carbonate 177
claystone 177
clinoptilolite
in lacustrine sediments 635
CO
in geothermal gases 465
CO_2
in geothermal gases 465
Co
in talc deposits 511
CO_2/CH_4 ratio
in Au deposits 483
coal 565
in Au deposit 143
S isotopes 121
Coastal Plain aquifer, Israel 617
collagen
in bone 299
in fossil bone 215, 249, 281, 301
in weathered bone 261
Colorado, USA, Golden 177
computer program
MINTEQ 23
PHREEQE 23
contaminant migration 423
contamination
biological 215
by tailings seep 445
estuarine environment 409
I sources 203
mineral 215
soil fungi 299
Cr
anthropogenic influence 409
in talc deposits 511
^{137}Cs, sorptive capacity 163
Cu
anthropogenic influence 409
in groundwater 617
in Kupferschiefer 151
in pit water 23
in tailings seep 445

dahllite 233
dating fault displacement 177
dating, fossil bone 249
degradation, of fossil bone 215
dehydroxytocopherols 13
denitrificiation, biosphere 437
diagenesis
bone 231, 303
fossil bone 233, 249, 273
zeolites 635
dialysis cell 617
dibenzofuran, in Kupferschiefer 151
dibenzothiophene, in Kupferschiefer 151
diffusion 617
dissolution 593
pyrite 93
Dolgellan, Gwynedd, United Kingdom 483
dolomite, in talc deposits 511

East Bull Lake, Massey, Ontario, Canada 163
Eh measurements, pit water 23
element retention 49
endemic goitre 203
environmental geochemistry 565
Erratum 645
ESR, electron spin resonance 329
estuarine
environment
anthropogenic contamination 409
processes 409
ethanol 1
Eu
in clinoptilolite 635
in smectite 635
Eureka Mining District, Arizona, USA 445
evaporites
source of brines 131
source of sulfate 93

evapotranspiration
in groundwater origin 493
exploration 473
extraction of Au 143

F, in groundwater 375
fault gouge 177
faults
dating with U-isotopes 177
Fe
in fossil bone 303
in groundwater 375
in pit water 23
in pore water 99
in removal of Sr 163
in tailings seep 445
Federal Republic of Germany, Kunigslutter 325
First International Workshop
on Fossil Bone 211
fission products 49
fluid inclusions 347
composition 473
decrepitation 473
in quartz 473
in sphalerite 455
in vein quartz 483
formation water 347
Palo Duro Basin 455

FOSSIL BONE
amino acids 271, 281, 325
albumin 255
apatite 233, 329
brushite 273
collagen 301
crystallographic alteration 261
diagenesis 231, 233, 249
ESR dating 329
First International Conference 211, 343
fossilisation 273
Geochronology
^{14}C 249, 271
ESR 329
U-series 331, 339
ion exchange 303
Isotopes
C 299
N 299
O 317
microbial activity 293, 299
microscopical analysis 215
model, bone fossilisation 303
molecular structure 231
molecular preservation 261, 301
phosphate 317
post-mortem histology 215
preservation 215, 281
radiocarbon dating 249, 271
tooth enamel 329
trace elements 247, 293, 303
U-series dating 331, 339
vivianite 273
weathering 261

fossilisation of bone 273, 303
francolite 233
fracture-filling minerals
role in radwaste disposal 163
France
Saumur-Champigny 1
West Viges Prospect, Creuse 143

fumaroles
H_2/CO ratio 465

Gabon, Africa 49
gabbroic pluton 163
gammacerane 13
gases
CH_4 465
CO 465
CO_2 465
H_2 465
'gelatin', in fossil bone 281
geobarometry, geothermal systems 465

GEOCHEMICAL EXPLORATION
Au deposits 369
for Au 143
geothermal areas 465
for petroleum 605
U deposits 375
geochemical modelling
of groundwater 493
geochemical trap 151

GEOCHRONOLOGY
^{14}C dating 625
ESR dating of tooth enamel 329
radiocarbon 249
fossil bone 271
U-dating 177
U-series dating, fossil bone 331, 339
geothermal gases 465
geothermal gradients 465
gibbsite
in karst 37
glass, natural 593
glucose 1
Gold Ox Hill, People's Republic of China 339
gold-ore 143
Golden, Colorado, USA 177
granite 79, 527, 577
groundwater 577
in closed basin 493
^{14}C dating 625
I dispersion 423
N 437
trace metals 617
in U exploration 375
Gulf Coast Basin, USA 605
gypsum 23, 493
control of brine composition 79
S isotopes 79

H, isotopes in vine ecosystem 1
H_2, in geothermal gases 465

Haiti, Jacmel, southern peninsula 37
halite, control of brine composition 79
halos
Au deposits 369
Br in formation water 131
Cl in formation water 131
Hanford, Washington, USA 63
heavy metals, anthropogenic contamination 409

hopanes, in Kupferschiefer 151
hopanoids 13
Hoxne, United Kingdom 331
hydrocarbon 13, 605
hydrochemistry 617
hydrogeochemistry 79
  in U exploration 375
hydrogeology
  ^{14}C dating 625
hydrophilic acid 565
hydrophobic acid 565
hydrothermal
  alteration, of carbonates to talc 511
  Au deposit 143
  reaction 511
  system 465
hydroxyapatite
  ESR dating 329
  in fossil bone 215
  in weathered bone 261

I
  dispersion in bog 423
  in groundwater 203
  in soil 203
  in surface water 203
I^-, in I dispersion test 423
I_2, in I dispersion test 423

ICP, inductively coupled plasma 473
illite, fixed ammonium 605
Indonesia
  Ngandong 339
  Sonde 339
iodide, dispersion 423
ion exchange 493
  in fossil bone 233
ion substitution, in clay minerals 605
ionic exchange
  in bone diagenesis 303
ionic substitution, in bone diagenesis 303
ionizing radiation 99
isoprenoid alkane 13

ISOTOPES
  age curves 455

  C 511
    in bitumen 109
    in bone 299
    in carbonate rocks 455
    in coal 109
    in crude oil 109
    in kerogen 109

  ^{14}C in bone amino acids 271
  H in formation water 131

  N in bone 299
  O 511
    in bone phosphate 317
    in Canadian Shield lakes 195
    in carbonate rocks 455
    in formation water 131
    in sulfate 93
  Ra, in groundwater 577

  ^{226}Ra in fault-zone material 177
  S
    in anhydrite 395
    in bitumen 121

ISOTOPES
  S
    in brine 79
    in coal 121
    in crude oil 121
    in kerogen 121
    in pyrite 121
    in sulfate 93, 121
  Sr
    in anhydrite 395
    in brine 79
    in carbonate rocks 455
    in formation water 131
  stable 493
  Th in fossil bone 339

  ^{230}Th in fault-zone material 177

  ^{232}Th in fault-zone material 177
  U
    in fossil bone 339
    in groundwater 577
  ^{234}U in fault-zone material 177

  ^{238}U in fault-zone material 177
isotopic composition
  O in bone phosphate 317
isotopic dating
  of clinoptilolite 635
  of smectite 635
isotopic tracing 635
isotopic variation
  deuterium 1
  mobility 177
  in natural fission reactor 49
Israel, Coastal Plain aquifer 617
Italy
  Adige River mouth 409
  Aeolian Islands 465
  Latium 465
  northern Adriatic Sea 409
  Phlegraean Fields 465
  Tuscany 465

Jacmel, southern peninsula, Haiti 37
jarosite 23
jurbanite 23

K
  in clinoptilolite 635
  in fluid inclusions 473
  in fossil bone 303
  in groundwater 375
  in I dispersion test 423
  in pit water 23
  „ increase in Cs sorption 163
Konigslutter, Federal Republic of Germany 325
kaolinite 79
  in bauxite 37
karst, bauxite formation 37
kerogen 109
  S isotopes 121
Kesterson Reservoir, California, USA 543
KI, contaminant test 423
kinetics, leaching
  of microtektites 593
Ksar Akil, Lebanon 339
Kupferschiefer, hydrocarbons 151

Lac du Bonnet, Manitoba, Canada 423, 577
lacustrine
    environment 635
    sediments 13
    source rocks 13
landscape geochemistry 437
Lassing, Austria 511
Latium, Italy 465
Lebanon, Ksar Akil 339
leucophyllite 511
Li, in groundwater 375
limestone, association with I 203

magnesite, in talc deposits 511
Manitoba, Canada 577
    (eastern) 423
    Lac du Bonnet 423, 577
marine-type organic matter 347
Marsworth, United Kingdom 331
mastadon, albumin preservation 255
MEDICAL GEOCHEMISTRY 437
metal-particle interactions 409
metals, in tailings seep 445
4-methyl sterane 13
methylphenanthrenes, in Kupferschiefer 151
Mg
    in bone decay 293
    in fossil bone 303
    in groundwater 375, 493
    in microtektite glass 593
    in pit water 23
    in removal of Sr 163
    in talc deposits 511
Mg-transport 511
microbial activity, effect on bone 299
microbiology, Se cycling 543
microorganisms, in bone diagenesis 273
microradiography, of fossil bone 215
microtektites 593
Midwest USA 347
mineral dissolution 493
mineral precipitation 493
mineralization
    base metals 473
    disseminated 375
    vein-type 375
mining, surface coal 565
Missouri, USA 203
Mn
    in fossil bone 303
    in groundwater 375, 617
    in pit water 23
    in tailings seep 445
Mo
    in black shales 347
    in natural fission reactor 49
modelling 527
    aqueous geochemistry 23
    diagenesis 293, 299
molecular preservation
    of bone 261
    in fossil bone 301
molecular structure, of bone 231
Montana, USA, Berkeley Pit 23
mudstone, fixed ammonium 605
Murray River, South Australia 303

N 281
    ammonium 437
    in bone 325
    isotopes in bone 299
        organic 437
    in plants 437
    in soils 437
    in waters 437
Na
    in fluid inclusions 473
    in groundwater 79, 375, 493
    in pit water 23
natural fission reactors 49
Nd, in natural fission reactor 49
Nevada, USA, Smith Creek Valley 493
New Zealand 109, 121
Ngandong, Indonesia 339
NH_4, in clays 605
Ni, in talc deposits 511
Nisa, Portugal 375
nitrate 437
nitrite 437
NO_3, in groundwater 375
North Africa 203
Northern England, United Kingdom 203
Norway, Norwegian Shelf 131
Norwegian Shelf, Norway 131
Nova Scotia, Canada 93

O
    in bone 325
    isotopes in bone phosphate 317
    isotopes in carbonates 455
    isotopes in groundwater 195
    isotopes in lake water 195
    isotopes in SO_4 93, 195
Oklo, Gabon, Africa 49
Ontario, Canada, East Bull Lake, Massey 163
ore, U 49
ore deposits, Au 369
ore formation 473
organic geochemistry 13
    of Kupferschiefer 151
organic matter
    in Au ore genesis 143
    in black shales 347
    in Kupferschiefer 151
    marine-type 347
    terrestrial-type 347
orthophosphate 99
oxidation
    secondary 151
    potential
        in control of U contents 577

P
    in bone decay 293
    in fossil bone 233, 303
Pacific Ocean 183
paleoclimate 317
paleodiets 281, 299

Palo Duro Basin, Texas, USA 395, 455
particulate matter properties 409
pathfinder elements 369
Pb
    anthropogenic influence 409
    in Kupferschiefer 151
Pd
    in natural fission reactor 49
peat bog, I dispersion test 423
People's Republic of China 13
    Gold Ox Hill 339
Pestera, Romania 339
petroleum
    C isotopes 109
    exploration 605
    low-S, New Zealand 121
    S isotopes 121
    terrestrial 13
phenanthrene, in Kupferschiefer 151
Phlegraean Fields, Italy 465
phosphate
    in fossil bone 233
    in groundwater 375
    O isotopes, bone 317
photosynthesis, environmental effects 1
phytane 13
Pinhole Cave, Creswell Crags,
    United Kingdom 331
plagioclase, weathering 493
Poland, southwest 151
polar compounds, in Kupferschiefer 151
pollution 437
    by Se 543
    by tailings seep 445
Portugal, Nisa 375
Powder River Basin, Wyoming, USA 565
precipitation
    acid 93
    O isotopes 195
pyrite
    dissolution 93
    S isotopes 121
pyroxenes 163

quartz
    fluid inclusions 473, 483
Quebec, Canada 195

Ra
    in basalt flow top 63
    in fault-zone material 177
    mobility 527
^{226}Ra, in groundwater 577
Rabenwald, Austria 511
racemization, amino acid 325
radiation 99
radioactive waste analogs 177
radioactivity, water 577
radiolysis 99
radionuclide
    sorption 163
    transport 527
radwaste disposal 527
rare earth elements
    ^{144}Ce 163
    in marine sediments 183
    in Mn micronodules 183
Rb, in smectite 635
reaction rates
    microtektite leaching 593
redox reactions 151
reduced sulfur
    in vein quartz 483
REE, in smectite 635
remediation, pit water 23
river/sea interface 409
Romania, Pestera 339
Ru, in natural fission reactor 49

S 121
    in fluid inclusions 483
    in fossil bone 303
    isotope
        chronostratigraphy 395
        in gypsum 79
        in sulfate 93
salinity 79, 493
salt 79
sandstone 177
Saumur-Champigny, France 1
Se
    in basalt flow top 63
    in black shales 347
    contamination 543
    in groundwater 565
    in organic detritus 543
    in soil 543
    in surface water 543
^{75}Se, sorptive capacity 163
seawater, leaching of microtektites 593
sedimentary rocks
    anhydrite 455
        S and Sr isotopes 395
    black shale 347
    dolomite 455
    limestone 455
sediments 13
    effect of radiolysis 99
    lacustrine 13
    Pacific Ocean 183
    sterilization method 99
selenite 79
shales, black, metal-rich 347
Si
    in bauxite 37
    in fossil bone 303
    in groundwater 375
    in microtektite glass 593
smectite
    fixed ammonium 605
    in lacustrine sediments 635
Smith Creek Valley, Nevada, USA 493
Sn
    in natural fission reactor 49
SO_4
    in groundwater 493
    in pit water 23
    in tailings seep 445

soil
in bone diagenesis 273
composition 1
distribution coefficient
Kd 423
I content 203
O isotopes 195
solution
in bone diagenesis 303
thermal, burnt bones 233
Soldiers' Hole, Cheddar Gorge, United Kingdom 331
solution aqueous 617
solutions, ascending 151
Sonde, Indonesia 339
sorption
of I in bog 423
radionuclides 63
sorptive capacity, radionuclides 163
source rock 109, 121
South Australia, Australia 303
Blanchetown 303
Murray River 303
spectrometry, α 339
spent fuel 49
sphalerite
in black shales 347
fluid inclusions 455
Sr 281
in basalt flow top 63
in bone decay 293
in fossil bone 233, 303
in groundwater 375
isotope chronostratigraphy 395
isotopes
in brine 79
in carbonates 455, 635
in smectite 635
in talc deposits 511
^{90}Sr, sorptive capacity 163
stable isotopes, in bone 299
statistics
discriminant function analysis 375
factor analysis 375, 565
gap test 375
Q-mode cluster analysis 375
sterilization, of sediments 99
steroids 13
stream, pollution 445
sulfate
isotopes of S and O 93
in pore water 99
S isotopes 121
surface, leached
of microtektites 593
suspended matter 409
Sweden, Baltic Shield 473

tailings, seep pollution 445
talc deposits, genesis 511
^{95m}Tc, sorptive capacity 163
Te, in natural fission reactor 49
tektites 593
terrestrial-type organic matter 347
Texas
Palo Duro Basin, USA 395
Panhandle, USA 395, 455
Th
in fault-zone material 177
in fossil bone 331, 339
thermal history of bone 325
thermodynamic data, As 23
thermodynamics, WATEQ 375
thiols, in Se solubility 543
Ti, in fossil bone 303
tooth enamel, ESR dating 329
trace elements 565
behaviour 409
in fossil bone 233, 247, 281, 293
in talc deposits 511
trace metals, in groundwater 617
transport, radionuclides 63
travertine 465
triterpanes 13
Turkey, Bigadic 635
Tuscany, Italy 465

U 565
in basalt flow top 63
in black shales 347
in bone 329
deposits
disequilibrium 527
in fault-zone material 177
in fossil bone 331, 339
in groundwater 375, 577
mobility 527
in natural fission reactor 49
U-series dating 331
U-series disequilibrium 527, 577
ultramafic rocks 511
United Kingdom 203
Dolgellau, Gwynedd 483
Hoxne 331
Marsworth 331
Northern England 203
Pinhole Cave, Creswell Crags 331
Soldiers' Hole, Cheddar Gorge 331
uraninite 49
USA
Arizona, Eureka Mining District 445
Black Hills 347
California, Kesterson Reservoir 543
Central 347
Colorado, Golden 177
Gulf Coast Basin 605
Hanford, Washington 63
Midwest 347
Missouri 203
Montana, Berkeley Pit 23
Nevada, Smith Creek Valley 493
Palo Duro Basin, Texas 395
Texas Panhandle 395, 455
Wyoming, Powder River Basin 565
USSR, Byelorussia 437

V, in black shales 347
vapor phase 465
Venezuela 255
vine, water cycle 1
vivianite, in fossil bone 273
volcanic tuffs 493
volcanic-sedimentary rocks 635
volcano-sedimentary tuffs 143

wallrock alteration, of talc deposits 511
Washington, USA, Hanford 63

waste management
    nuclear fuel 163
    radioactive 63, 593
    tailings pollution 445
water
    drinking 203
    formation 131
    ground 37, 79
    ground
        in faults 177
    karst 37
    marine 347
    pollution 23, 565, 617
    pore 99
    salts 79
    subsurface 203
    surface 203
    tailings seep 445
water-rock interaction 79
weathering 79
    bone 261
West Viges Prospect, Creuse, France 143
Western Australia, Australia 79
whitlockite 233
wine, H isotopes 1
Wyoming, USA, Powder River Basin 565

zeolites 493
Zn
    in black shales 347
    in bone decay 293
    in Kupferschiefer 151
    in pit water 23
    in tailings seep 445

AUTHOR INDEX
(Book Review - BR)

Aagard P. 131
Adel-Hadadi M.A. 593
Adiga R. 593
Alterescu S. 593
Ames L.L. 63
Amiel A.J. 617
Aravena R. 625
Ashenberg D. 23
Asselin C. 1
Bada J.L. 325
Barkatt A. 593
Barkatt Al. 593
Bartstra G.J. 339
Behrensmeyer A.K. 261
Benedetti M. 37
Benjamin T. 49
Bildgen P. 37
Boldrin A. 409
Bonnot-Courois C. 635
Bottrell S.H. 483
Boulegue J. 37
Brand N.W. 483
Carignan R. 195
Carman R. 99
Chiodini G. 465
Chinn E.W. 605
Cioni R. 465
Clair T.A. 93
Clauer N. 635
Coveney, Jr. R.M. 347
Curtis D. 49
Davis A. 23
Dekkers M.J. 375
DeLaeter J. 49
Delmore J.E. 49
DeNiro M.J. 231
Disnar J.-R. 143
Drimmie R. 625
Dunn C.E. (BR) 433
Eanes E.D. 261
Edvardsson U.G. 99
Egeberg P.K. 131
Elster H. 231
Ferrell Jr. R.E. 605
Fisher L.W. 261
Fisher R.S. 395, 455
Fritz P. 625
Fu Jiamo 13
Fuge R. 203
Gancarz A. 49
Garland A.N. 215
Gascoyne M. 577
Gatellier J.-P. 143
Gelineau M. 195
Glasby G.P. 183
Glascock M.D. 347
Godineau V. 1
Grun R. 329
Grupe G. 293, 299
Gundogdu M.N. 635
Guoying S. 13
Gwozdz R. 183
Hallstadius L. 99
Hare P.E. 261
Hedges R.E.M. 211, 249, 331
Herrmann B. 325
Hirner A.V. 109, 121
Hitchon B. 539 (BR)
Hutton J.T. 303
Ivanovich M. 211, 331
Jaouni A.-R. 543
Jope E.M. 301
Jope M. 301
Juracic M. 409
Kamineni D.M. 163
Kingston J.D. 281
Kolodny Y. 317
Kovalevskaya O.M. 369
Kovalevskii A.L. 369
Kramer J.R. 93
Kunzendorf H. 183
Kyle J.R. 455
Latham A.G. 527
Law I.A. 249
Levinson A.A. (BR) 105
Lindblom S. 473
Loss R. 49
Lukashev K.I. 437
Luz B. 317
Lyon G.L. 109
Lyons W.B. 79
Maeck W.J. 49
Magaritz M. 617
Man E.H. 325
Martin G.J. 1
McArthur J.M. 79
McGarrah J.E. 63
Menegazzo Vitturi L. 409
Merz C. 151
Miller M.F. 483
Moore K.M. 281
Morlat R. 1
Murray M.L. 281
Naftz D.L. 565
Naulet N. 1
Newesely H. 233
Norrish K. 303
Odiot D. 1
O'Keefe J.A. 593
Onoshko M.P. 437
Ostlund P. 99
Pate E.D. 303
Payan I.L. 325
Piepenbrink H. 273, 293, 299
Posey H.H. 395, 455
Preissler A.M. 493
Prochaska W. 511
Puls R.W. 63
Puttmann W. 151
Qureshi R.M. 625
Rabitti S. 409
Rae A. 331
Rampazzo G. 409
Rampe J.J. 445
Rankin A.H. 473
Renner R.M. 183
Rice J.A. 565
Robichet J. 1
Robinson B.W. 121
Ronen D. 617
Rosholt J.N. 177
Rosman K. 49
Runnells D.D. 445
Saad E.E. 593
Sassen R. 605
Schoeninger M.J. 281, 299
Schwarcz H.P. 93, 211, 329, 527
Sheppard M.I. 423
Smith P.A. 423
Sousanpour W. 593
Speczik S. 151
Stoffers P. 183
Szabo B.J. 177
Tessier A. 195
Thibault D.H. 423
Thirlwall M.F. 79
Thomas J.M. 493
Thompson M. 473
Ticknor K.V. 163
Traub W. 231
Tsao L. 543
Turner J. 79
Tuross N. 255, 261
Vandergraaf T.T. 163
van der Plicht J. 339
van der Weijden C.H. 375
van der Wijk A. 339
van Gaans P.F.M. 375
van Klinken G.J. 271
Vriend S.P. 375
Weiner S. 231
Welch A.H. 493
Wells M. 617
Weres O. 543
Williams C.T. 247
Williams L.B. 605